2002 3rd QUARTER GROUNDWATER MONITORING REPORT

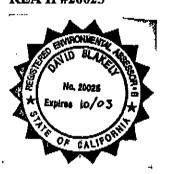
FOR



FORMER ANGELES CHEMICAL COMPANY FACILITY 8915 SORENSEN AVENUE SANTA FE SPRINGS, CALIFORNIA

Prepared by:
Blakely Environmental Investigations, Inc.
9605 Arrow Route, Suite T
Rancho Cucamonga, CA 91730
(909)-989-9550

David A. Blakely Sr. Scientist REA II #20025



Hiram D. Garcia REA II #20048



December 30, 2002

James V. Jazmin



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1.0) INTRODUCTION

Blakely Environmental Investigations, Inc. (BEII) was contracted by Greve Financial Services ((310) 753-5770) to perform quarterly groundwater monitoring at the former Angeles Chemical Company, Inc. facility located at 8915 Sorensen Avenue, Santa Fe Springs, California (See Figure 1, Site Location Map). The quarterly groundwater monitoring was requested by the Department of Toxics Substance Control (DTSC) correspondence dated September 18, 2001. This report presents the results of the 2002 3rd quarter monitoring episode performed on October 7, 2002.

2.0) SITE LOCATION AND HISTORY

The site is approximately 1.8 acres in size and completely fenced. The site is bound by Sorensen Avenue on the east, Air Liquide Corporation to the north and northwest, Plastall Metals Corporation to the north, and a Southern Pacific Railroad easement and Mckesson Chemical Company to the south.

The property was owned by Southern Pacific Transportation Company and was not developed until 1976.

The Angeles Chemical Company has operated as a chemical repackaging facility since 1976. A total of thirty-four (34) underground storage tanks (USTs) existed beneath the site. Two (2) USTs, one gasoline and one diesel, and sixteen (16) chemical USTs were excavated and removed under the oversight of the Santa Fe Springs Fire Department. All 16 remaining chemical USTs were decommissioned in place and slurry filled.

In January 1990, SCS Engineers, Inc. (SCS) conducted a site investigation. SCS advanced eight borings from 5' below grade (bg) to 50' bg. Soil samples collected and analyzed identified benzene, 1,1-Dichloroethane (1,1-DCA), 1,1-Dichloroethene (1,1-DCE), MEK, methyl isobutyl ketone (MIBK), toluene, 1,1,1 Trichloroethane (1,1,1-TCA), Tetrachloroethylene (PCE), and xylenes at detectable concentrations.

In June 1990, SCS performed an additional site investigation at the site by advancing six additional borings advanced from 20.5' bg to 60' bg. A monitoring well (MW-1) was also installed. Soil sample analysis identified detectable concentrations of the above mentioned VOCs in addition to acetone and methylene chloride. Dissolved benzene, 1,1-DCA, 1,1-DCE, PCE, Trichloroethylene (TCE), and trans-1,2-dichloroethene were detected in MW-1 above maximum contaminant levels.

Between 1993 and 1994, SCS performed further testing at the site. Soil samples were collected from nine borings. Five borings were converted to groundwater monitoring wells MW-2, MW-3, MW-4, MW-6, and MW-7 (See Figure 2, Well Location Map). The predominant compounds detected in soil were acetone, MEK, MIBK, PCE, toluene, 1,1,1-TCA, TCE, and xylenes. Groundwater sample collection performed in

February 1994 by SCS identified the following using EPA method 624 (laboratory results included in Remedial Investigation Report dated August 1994 by SCS):

Component Analyzed	MW-1	MW-2	MW-3	MW-4	MW-6	MW-7
Benzene	194	<100	63	111	7.95	46
1,1-DCA	649	1,130	85	1,410	2,260	2,130
1,2-DCA	<100	<100	<50	<100	1,140	. 31
1,1-DCE	2,210	2,460	2,800	806	1,240	151
Ethylbenzene	14 333 ···	郑1,720	:: 11 5	1,180	1.910 T	45
Methylene Chloride	1,220	2,980	6,530	4,760	21,400	<50
PCE	662	2,150	5,370	3,320	2,130	134
Toluene	560	7,390	579	12,700	13,500	398
1,1,1-TCA	9,370	3,470	444	/°36,200	114,000	90
TCE	7,160	3,040	1,730	14,300	1,320	45
Xylenes	1,750	<u>-</u> ∴7,790	1,014	4,362	4,710	186
Units	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L

In 1996, SCS performed separate soil vapor extraction pilot testing beneath the site at approximately 10' bg and 22' bg. Laboratory analysis identified maximum soil vapor gas concentrations as 1,1,1-TCA (30,300 ppmV) with detectable concentrations of 1,1-DCE, TCE, methylene chloride, toluene, PCE and xylenes. The maximum radius of influence from the various extraction units used were measured as 35 feet at 10' bg and 80 feet at 22' bg.

In November 1997, SCS performed a soil vapor survey at the site. Soil vapor samples were collected at twenty-three locations at 5' bg. In addition, soil vapor samples were collected at 15' bg in five of the twelve sampling points. The soil vapor survey identified maximum VOC contaminants near the railroad tracks on site, the location where a rail tanker reportedly had an accidental release.

In July 2000, BEII contracted BLC Surveying, Inc. to perform a site survey. Well locations were recorded using the California Plane coordinate systems. A copy of the survey is on file with the DTSC.

In September 2000, Blaine Tech Services, Inc. gauged the six on-site monitoring wells (MW-1, MW-2, MW-3, MW-4, MW-6, and MW-7) under the supervision of BEII. Free product (FP) was identified in monitoring well MW-4 at 0.21-feet in thickness. Approximately 0.5 liters of FP were removed from the well and placed in a sealed 55-gallon drum.

BEII performed a soil vapor gas survey at the site from November 27 to December 1, 2000. A total of 36 soil vapor sample points, labeled SV1 through SV36, were selected by BEII and approved by the DTSC for analysis. Two discrete soil vapor samples were collected from each soil vapor sample point, one at 8' bg and one at 20' bg. SV1 was an exception since the first soil vapor sample was collected at 10' bg instead of

8' bg. Based on the soil vapor sample results, BEII identified relatively low level concentrations of VOCs in the silty clay soils at 8' bg. However, the concentrations of VOCs are significantly higher in the sandy soils at 20' bg in OU-1. Results were submitted to the DTSC by BEII in a Report of Findings dated January 10, 2001 with laboratory reports (BEII Report of Findings dated January 10, 2001).

On November 30, 2000, Blaine Tech Services, Inc. (Blaine) was contracted to perform groundwater sampling at the site. Groundwater monitoring wells MW-4 and MW-6 identified were not sampled due to the presence of free product. These wells were installed to monitor a perched groundwater body to the north. Free product was identified in MW-1 during sample collection, upon completion of well purging. The potentiometric groundwater level was above the well screen. Groundwater purging lowered the potentiometric level below the screened interval, allowing free product to enter. Groundwater sample analysis identified thirteen constituents of concern (COCs) in the dissolved phase as VOCs only. Laboratory analysis of metals and SVOCs identified concentrations below allowable levels for those constituents. Results were submitted by BEII to the DTSC in a Report of Findings dated January 10, 2001 with laboratory reports.

The remaining USTs have been excavated or slurry filled for closure under the supervision of the Santa Fe Springs fire Department. A report was be submitted to the DTSC upon completion by EREMCO.

3.0) REGIONAL GEOLOGY/HYDROGEOLOGY

The site is located near the northern boundary of the Santa Fe Springs Plain within the Los Angeles Coastal Plain at an elevation of approximately 150 feet above mean sea level. Surficial sediments consist of fluvial deposits composed of inter-bedded gravel, sand, silt, and clay. Available data from California Water Resources Bulletin No. 104 (June 1961) indicate that the surficial sediments may be Holocene and/or part of the upper Pleistocene Lakewood Formation, which ranges from 40 to 50 feet thick beneath the site. The Lakewood Formation has lateral lithologic changes with discontinuous permeable zones that vary in particle size. Stratified deposits of sand, silty sand, silt, and fine gravel comprising the upper portion of the lower Pleistocene San Pedro Formation underlies the Lakewood Formation.

The site lies within the Central Basin Pressure area, a division of the Central Ground Water Basin, which extends over most of the Coastal Plain. The Gasper aquifer, a part of the basal coarse unit of Holocene deposits, is found within old channels of the San Gabriel and other rivers. The Gasper aquifer may be 40-feet in thickness, with its base at a depth of about 80 to 100-feet bg. The underlying Gage aquifer is found within the Pleistocene Lakewood Formation. The Hollydale aquifer is the uppermost regional aquifer in the Pleistocene San Pedro Formation. Bulletin 104 indicates that this aquifer averages approximately 30-feet in thickness in this area, with its top at a depth of about 70 feet bg. The major water producing aquifers in the region are the Lynwood aquifer

located approximately 200-feet bg, the Silverado aquifer located at approximately 275-feet bg, and the Sunnyside aquifer located at approximately 600-feet bg.

4.0) SITE GEOLOGY/HYDROGEOLOGY

SCS identified silty clays with some minor amounts of silt and sand in the shallow subsurface from surface grade to approximately 15' bg. Below the silty clay, poorly sorted coarse-grained sand and gravel from 15' bg to 26' bg. SCS referenced a less permeable silty clay layer between 35' and 50' bg, which contained stringers of fine sand and silt that is part of the Gaspur/Hollydale aquifer.

A perched aquifer was encountered at approximately 23' bg by SCS and referenced as such by SCS. Based on a review of McKesson files, Harding Lawson Associates (HLA) stated that in January 1975 prior to McKesson operating their neighboring facility, no groundwater was encountered to a depth of 45' bg beneath the McKesson property. In March 1986, during operation of the neighboring McKesson facility, groundwater was encountered at 22' bg beneath the McKesson property as stated by HLA. Based on the HLA statements, BEII concludes with SCS that the first encountered groundwater is part of a shallow perched aquifer. The sediments within this perched aquifer appear to be consistent with the Gasper Aquifer. Monitoring wells MW-4, MW-6, MW-8, and MW-9 will be noted as Gasper monitoring wells with groundwater at approximately 30' bg.

SCS also referenced that the Gaspur/Hollydale Aquifer was encountered at 20' to 35' bg beneath the site. Further review of Bulletin 104 by BEII and DTSC, identified that the SCS referenced Gaspur/Hollydale Aquifer was in fact the Gage/Hollydale Aquifer. Monitoring wells MW-1, MW-2, MW-3, and MW-7 will be noted as Gage/Hollydale monitoring wells since they are screened in that deeper groundwater which is now at approximately 40' bg.

The groundwater gradient flowed historically to the southwest as identified by SCS. In October 2002, the groundwater was identified between 26.48' bg to 44.66' bg beneath the site. BEII recommends an additional monitoring well in the Gage/Hollydale Aquifer to calculate the groundwater gradient beneath the site, since monitoring wells MW-1, MW-2, and MW-3 are in a straight line of each other. Figure 3 contains the depth to water in each well in feet below grade with the well elevations given as feet above mean sea level.

5.0) GROUNDWATER MONITORING PROTOCOL

The purpose of the proposed groundwater monitoring was to provide data regarding the piezometric surface, water quality, and the presence of free product (FP), if any on a quarterly basis to the DTSC. Groundwater monitoring consisted of such activities as water level measurement, well sounding for detection of FP, collection of

groundwater samples, field analysis, laboratory analysis, and reporting. The proposed work was performed as follows:

The depth to groundwater was measured in each well using a decontaminated water level indicator capable of measuring to with 1/100th of a foot. Prior to and following collection of measurements from each well, the portions of the water level indicator entering groundwater were decontaminated using a 3-stage decontamination procedure consisting of a potable wash with water containing Liquinox soap followed by a double purified water rinse. Wells were monitored in the order of least contaminated to the most contaminated based on past analysis. For the Angeles Chemical Co. wells, the following order of wells was followed: MW-9, MW-7, MW-2, MW-3, MW-1, MW-4, MW-6, and MW-8.

The well box and casing were opened carefully to minimize the amount of debris or dirt falling into the open casing. Once the well cap was removed, the water level indicator was lowered into the well until a consistent tone was registered. Several soundings were repeated to verify the measured depth to groundwater. The depth of groundwater was measured from a reference point marked on the lip of each well casing. A licensed surveyor has surveyed the elevation of each reference point. The result was recorded on the field sampling log for each well. Other relevant information such as physical condition of the well, presence of hydrocarbon odors, etc. was also recorded as appropriate on the field sampling log.

The well sounder used for this project was equipped to measure free product (FP) layers thicker than 0.1 inches. FP was indicated as light non-aqueous phase liquid (LNAPL) or dense non-aqueous phase liquid (DNAPL).

Groundwater purging was conducted immediately following the collection of a groundwater depth measurement from all monitoring wells. Groundwater samples were analyzed for the following constituents:

- Volatile organic compounds (VOCs) using EPA Method 8260B to include all Tentatively Identified Compounds (TICs).
- Total Petroleum Hydrocarbons as gasoline (TPH-gas) using EPA Method 8015 modified.
- Title 22 (CAM 17 heavy metals) metals using EPA Method 7000 series.
- Perchlorate using EPA Method 314 by Ion Chromatography.

5.1) Well Purging and Measurement of Field Parameters

Wells were purged in the following order MW-9, MW-7, MW-2, MW-3, and MW-1 to minimize the potential for cross contamination. The wells were purged by Blaine Tech Services, Inc (Blaine) and sampled by BEII on October 7, 2002 in the presence of Mr. Sanford Britt of the DTSC. The purge protocol was

presented in the Field Sampling Plan as Appendix A in the Groundwater Monitoring Work Plan dated October 23, 2001 and submitted to the DTSC.

Prior to purging, casing volumes was calculated based on total well depth, standing water level, and casing diameter. One casing volume was calculated as:

 $V = \pi (d/2)^2 h \times 7.48$ where:

V is the volume of one well casing of water (in gallons, 1 $ft^3 = 7.48$ gallon);

d is the inner diameter of the well casing (in feet); and h is the total depth of water in the well - the depth to water level (in feet).

A minimum of three casing volumes of water was purged from each well except for MW-2, which dewatered after eight gallons. Water was collected into a measured bucket to record the purge volume. All purged groundwater was containerized in 55-gallon hazardous waste drum for disposal at a later date.

After each well casing volume was purged; water temperature, pH, specific conductance (EC), and turbidity were measured using field test meters and the measurements were recorded on Well Monitoring Data Sheets (See Appendix A). Samples were collected after these parameters have stabilized; indicating that representative formation water has entered the well. The temperature, pH, and specific conductance should not vary by more than 10 percent from reading to reading. Turbidity should be less then 5 NTUs, however, the purging process stirred up silty material in each well which made the turbidity measurements of 5 NTUs unattainable. Groundwater samples were collected after water levels recharged to 80 percent of the static water column. Notations of water quality including color, clarity, odors, sediment, etc. were also noted in the data sheets.

All field meters were calibrated according to manufacturers' guidelines and specifications before and after each day of field use. Field meter probes were decontaminated before and after use at each well. The pH, conductivity, and temperature were measured with a Myron-L Ultra Meter and turbidity was measured with a HF Scientific DRT-15C meter. The calibration standards used for pH were 4 and 7 with expiration dates of July 2003. Conductivity was calibrated to a 3900 µs standard with an expiration date of July 2003. A 0.02 NTU standard was used to calibrate the turbidity with an expiration date of July 2003.

5.2) Well Sampling

Groundwater samples were collected by lowering a separate disposable

bailer into each well. Groundwater was transferred from the bailer directly into the appropriate sample containers with preservative, if required, chilled, and processed for shipment to the laboratory. When transferring samples, care was taken not to touch the bailer-emptying device to the sample containers. Water samples were transported to Southland Technical Services, Inc., a certified laboratory by the California Department of Health Services (Cert. #1986) to perform the requested analysis.

Groundwater samples were collected from monitoring wells MW-9, MW-7, MW-3, MW-2, and MW-1 only. Monitoring wells MW-4, MW-6, and MW-8 identified FP as LNAPL at a thickness of 0.06', 0.39' and 0.92', respectively. The FP thickness in MW-6 is assumed based on the depth of the well bottom since no water was identified in the well.

Vials for VOC and TPH analysis were filled first to minimize aeration of groundwater collected in the bailer. The laboratory provided vials containing sufficient HCl preservative to lower the pH to less than 2. The vials were filled directly from the bottom-emptying device. The vial was capped with a cap containing a Teflon septum. Blind duplicate samples for the laboratory were labeled as "MW-5" and were collected from monitoring well MW-1 only. The vial was inverted and tapped to check for bubbles to insure zero headspace. Free product was also collected in vials from MW-8 for perchlorate using EPA method 314.

Groundwater sample collection for dissolved metals followed. The laboratory provided 500-mL poly containers. The containers were filled directly from the bottom-emptying device.

New nitrile gloves were worn during by sampling personnel for each well to prevent cross contamination of the samples. A solvent free label was affixed to each sample container/vial denoting the well identification, date and time of sampling, and an identifying code to distinguish each individual bottle.

5.3) Sample Handling

VOA vials and 500-mL poly containers, including laboratory trip blanks and rinse blanks, were placed inside of one new Ziplock bag per well and stored in a cooler chilled to approximately 4°C with bagged ice. Water samples were logged on the chain-of-custody forms immediately following sampling of each well to insure proper tracking through analysis to the laboratory.

5.4) Waste Management

FP, purged groundwater, and decontamination water were stored in sealed

55-gallon drums for a period not to exceed 90 days. Stored wastes will be profiled for hazardous constituents and characterized as Non-Hazardous, California Hazardous, or RCRA Hazardous, as appropriate. Any transportation of waste will be under appropriate manifest.

6.0) GROUNDWATER SAMPLE RESULTS

Monitoring wells MW-4, MW-6, and MW-8 identified FP as LNAPL at a thickness of 0.06', 0.39' and 0.92', respectively. A total of 1-gallon of FP was recovered from MW-6 and 7 ½-gallons of FP was recovered from MW-8 to date. Monitoring well MW-4 contained such a small amount of fluid within the well that a bailer was unable to retrieve any liquid.

Laboratory analysis of the FP was performed in June 2002 and identified dissolved TPH-gas at 812,000 mg/L from MW-6 and 801,000 mg/L from MW-8. Concentrations of dissolved TPH as diesel were also identified in FP as 53,400 mg/L from MW-6 and 56,600 mg/L from MW-8. No detectable concentrations of TPH as motor oil were identified in FP collected from both wells.

Groundwater samples collected from monitoring wells MW-1, MW-2, MW-3, MW-7, and MW-9 in October 2002 contained TPH-gas ranging from 52,300 μ g/L in MW-1 to 1,730 mg/L in MW-9. See Table 1 and Figure 4 for dissolved TPH-gas concentrations. The maximum TPH-gas decreased in MW-1 from 724,000 μ g/L in the June 2002 groundwater monitoring episode. The 2002 third quarter groundwater monitoring episode identified dissolved TPH-gas concentrations as 5,300 μ g/L on the north side of the property (MW-7) and 1,730 μ g/L on the east side of the property (MW-9). However, concentrations of dissolved TPH-gas on the south side of the property (MW-1, MW-2, and MW-3) averaged 29,857 μ g/L, a decrease from 253,700 μ g/L identified from the previous quarterly sampling.

Groundwater sample results from the Gage/Hollydale aquifer identified relatively low VOC concentrations to the north and east side of the site and relatively high VOC concentrations to the south end of the site along the McKesson property (See Table 2 and Appendix B for laboratory results).

The 2002 third quarter groundwater monitoring episode identified dissolved BTEX concentrations as 3,470 μ g/L in MW-7 located along the northern boundary of the property. Toluene and xylene combined for a total of 3,136 μ g/L of the total 3,470 μ g/L as BTEX in groundwater collected from MW-7. Monitoring well MW-9 located on the east side of the property identified dissolved BTEX as 893 μ g/L, exclusively as benzene. On the south side of the property, dissolved BTEX concentrations ranged from 10,089 μ g/L to 758 μ g/L in monitoring wells MW-1 through MW-3 (See Figure 4 for dissolved BTEX concentrations). Most of the dissolved BTEX concentrations from all southern Gage/Hollydale monitoring wells consisted of toluene and xylene as 82-88% of the total

BTEX, with the exception of MW-2 which identified mostly benzene and ethylbenzene as 72% of the total BTEX. However, monitoring well MW-2 contained the least amount of total dissolved BTEX at 758 μ g/L.

Concentrations of dissolved PCE and TCE were identified as non-detect (<2 µg/L) in groundwater from MW-7 located along the northern boundary of the property. PCE and TCE concentrations in groundwater were identified as 190 µg/L and 56.6 µg/L, respectively, from MW-9 located on the east side of the property. Dissolved PCE and TCE concentrations were exclusively detected in MW-3 along the southern boundary of the property as 39.3 µg/L and 28 µg/L, respectively (See Figure 5 for dissolved PCE concentrations). Again, dissolved VOC concentrations were detected at higher levels along the south side of the property.

No detectable concentrations of 1,1,1 TCA ($<5 \mu g/L$) were identified in the Gage/Hollydale monitoring wells. Only Gasper monitoring well MW-9 contained dissolved 1,1,1 TCA at 92 $\mu g/L$. No significant concentrations of parent VOC concentrations (PCE, TCE, or 1,1,1 TCA) were identified beneath the former Angeles Chemical site.

Concentrations of dissolved chlorinated VOC daughter products were relatively elevated compared to their respective parent VOCs and also showed a trend of higher dissolved concentrations along the southern boundary of the property.

1,1 DCA is a daughter product from reductive dehalogenation of 1,1,1-TCA and from carbon-carbon double bond reduction of 1,1 DCE, another daughter product. Dissolved 1,1 DCA was identified at a concentration of 5,680 μ g/L in MW-7, which is located along the north side of the property. On the east side of the property, monitoring well MW-9 contained dissolved 1,1 DCA concentrations at 1,390 μ g/L. Concentrations of dissolved 1,1 DCA along the southern side of the property were identified as 10,400 μ g/L in MW-1, 2,550 μ g/L in MW-2, and 1,130 μ g/L in MW-3 (See Figure 5 for dissolved 1,1 DCA concentrations).

Dissolved 1,1 DCE, a daughter product of the dehydrohalogenation of 1,1,1 TCA and reductive dehalogenation of TCE, was identified at a concentration of 547 μ g/L in groundwater from MW-7. Groundwater collected from MW-9 located on the east side of the property identified dissolved 1,1 DCE as 1,620 μ g/L. Dissolved 1,1 DCE was identified in wells MW-1 through MW-3 at concentrations of 3,800 μ g/L to 176 μ g/L (See Figure 5 for dissolved 1,1 DCE concentrations). Maximum concentrations of dissolved 1,1 DCE were 2 to 7 times greater along the southern side of the property compared to the northern and eastern side.

Cis-1,2 DCE is also a daughter product of the dehydrohalogenation of 1,1,1 TCA and reductive dehalogenation of TCE. Concentrations of dissolved cis-1,2 DCE were identified along the north side of the property at 311 μ g/L in MW-7. Groundwater

identified dissolved cis-1,2 DCE at 736 μ g/L in MW-9 on the east side. The south side of the property identified dissolved cis-1,2 DCE from 20,700 μ g/L to 212 μ g/L in monitoring wells MW-1 through MW-3 (See Figure 5 for dissolved cis-1,2 DCE concentrations). Maximum dissolved concentrations of cis-1,2 DCE were 28 to 67 times greater along the southern side of the property compared to the northern and eastern sides. Again, dissolved VOC concentrations were detected at higher levels along the southern side of the property.

Vinyl chloride (VC) is a by product from the dehydrohalogenation and reductive dehalogenation of the chlorinated VOC daughter products mentioned above. Dissolved VC was identified at a concentration of 684 μ g/L in MW-7, which is located along the north side of the property. On the east side of the property, monitoring well MW-9 contained dissolved VC concentrations at 123 μ g/L. Concentrations of dissolved 1,1 DCA along the southern side of the property were identified as 2,860 μ g/L in MW-1, 2,710 μ g/L in MW-2, and 12,200 μ g/L in MW-3 (See Figure 5 for dissolved VC concentrations). No detectable concentrations of VC were identified in any of the groundwater samples collected from the previous groundwater monitoring episode performed on June 14, 2002.

Groundwater samples were also analyzed for 1,4-Dioxane for the first time in October 2002, a preservative used in 1,1,1 TCA to prolong its shelf life. Unlike the other VOCs, 1,4-Dioxane was identified at greater concentrations along the north side of the property. Monitoring well MW-7 contained dissolved 1,4-Dioxane at a maximum of 27,600 μ g/L along the north side. Dissolved 1,4-Dioxane concentrations in groundwater were also detected in MW-9 as 6,290 μ g/L and in MW-3 as 1,090 μ g/L. No detectable concentrations (<50 μ g/L) of 1,4-Dioxane were identified in groundwater collected from MW-1 and MW-2.

Groundwater samples were filtered by the laboratory and analyzed for dissolved metals (See Table 3 and Appendix B for dissolved metal results). Arsenic was the only dissolved metal identified above the maximum contaminant levels (MCLs) of $50 \mu g/L$. Arsenic was identified in groundwater at $78 \mu g/L$ in MW-7. All other metals identified concentrations below their respective MCLs.

7.0) CONCLUSIONS

Based on the recent groundwater sample results, BEII concludes that the site is impacted by dissolved VOCs and, to a minor extent, dissolved metals. Dissolved VOC concentrations were detected along the southern property boundary at up to 67 times greater than the dissolved VOC concentrations identified along the northern property boundary. Of all the monitoring wells located on-site, MW-1 identified the maximum concentrations of dissolved VOCs. The data supports that soil VOC residuals from a southern source may be impacting the well. However, further groundwater monitoring is

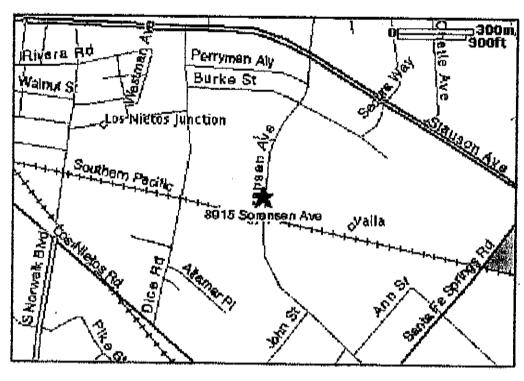
needed to determine whether this is in fact occurring. Arsenic was the only metal detected above MCLs from groundwater analysis.

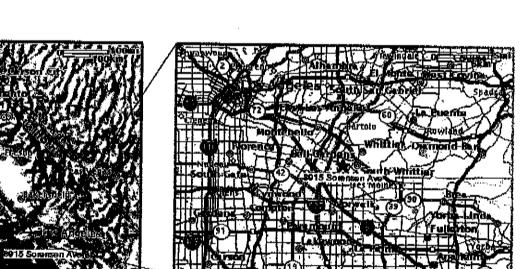
BEII also concludes that the recent groundwater sampling data provides preliminary support that the site has potential for intrinsic biodegradation. Groundwater parent VOC concentrations were identified at less than 190 μ g/L. Daughter VOC constituents identified dissolved concentrations of up to 20,700 μ g/L. However, further groundwater monitoring is needed to determine whether intrinsic biodegradation is occurring.

8.0) RECOMMENDATIONS

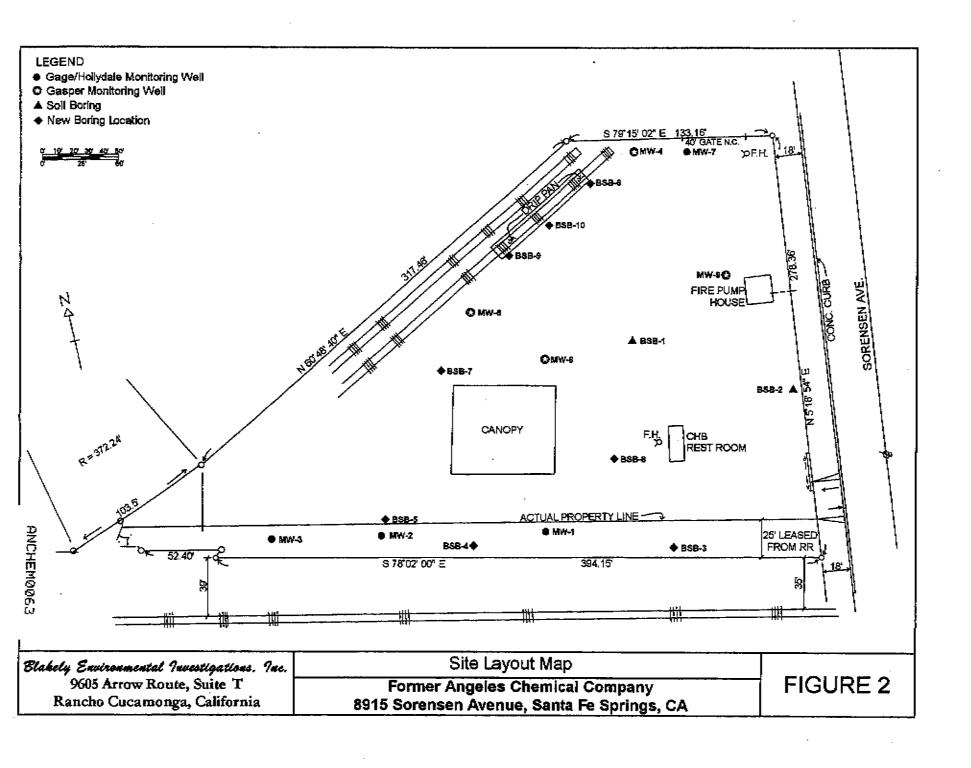
BEII recommends that quarterly groundwater monitoring for VOCs and dissolved metals be continued at the former Angeles Chemical Co. property. BEII further recommends that free product removal be performed on a monthly basis to reduce its mass

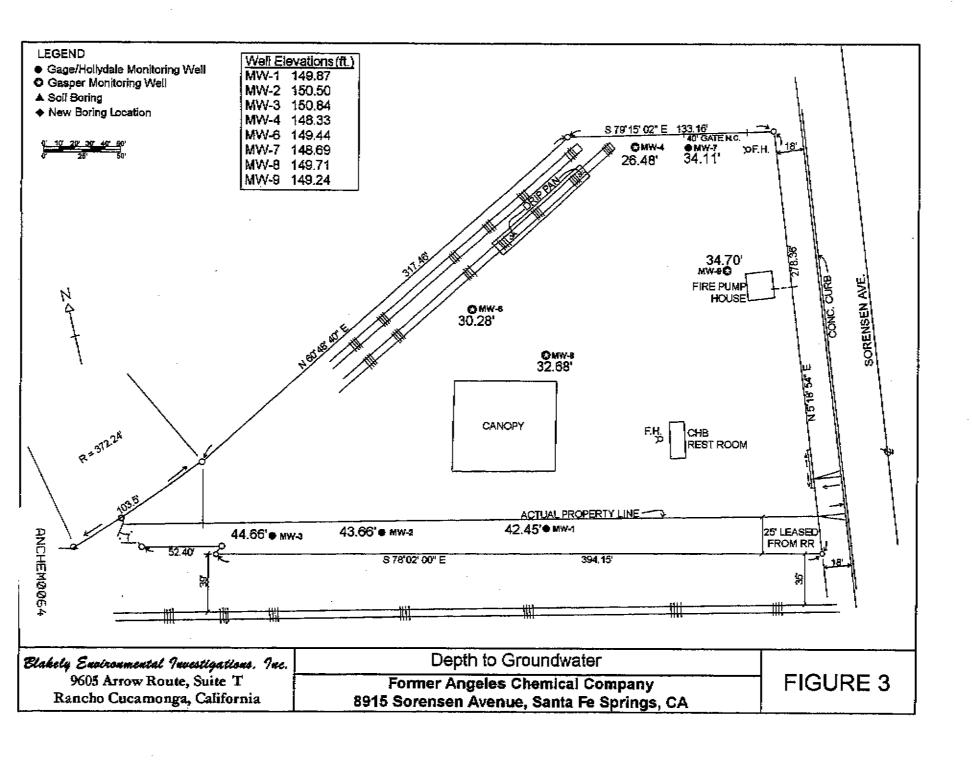
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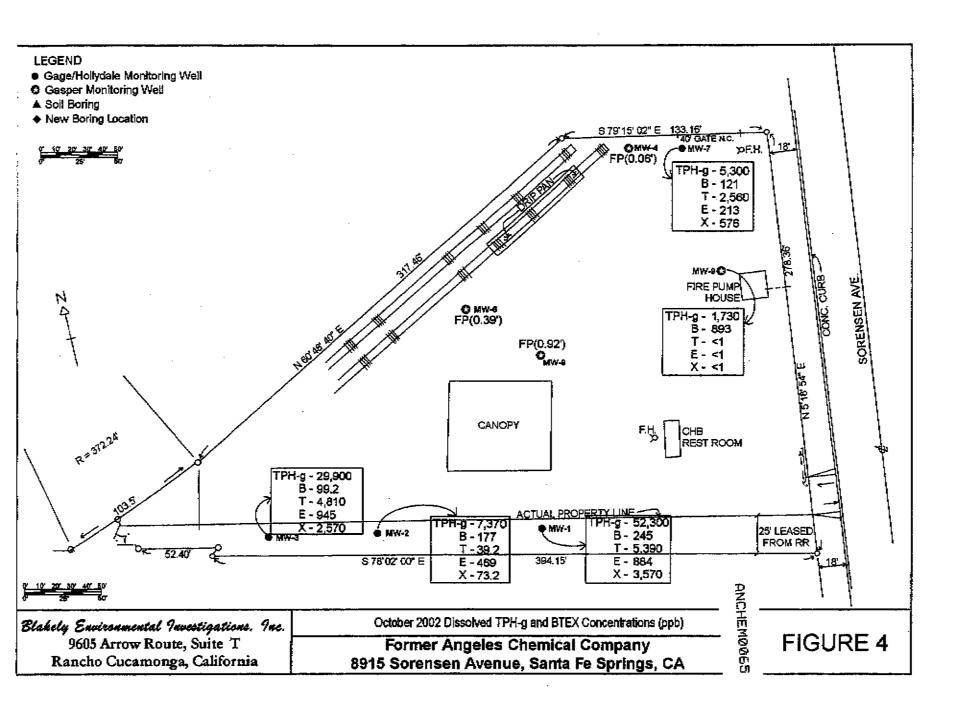




Blakely Environmental	FIGURE
Investigations, Inc. 9605 Arrow Route, Suite T Rancho Cucamonga, CA	 1







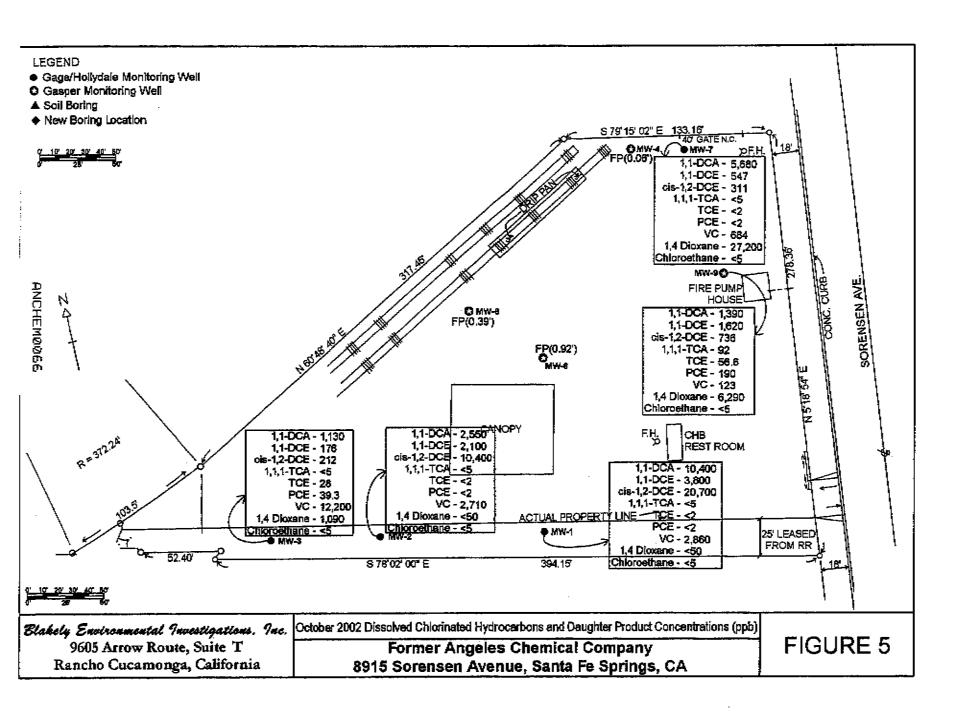


Table 1: TPH-gas Groundwater Sample Results using EPA Method 8015 (ug/L)

<u>Date</u>	MW-1	MW-2	<u>MW-3</u>	<u>MW-4</u>	MW-6	MW-7	<u>MW-8</u>	MW-9
Oct-01	NA	NA	NA	NA	NA NA	NA	NA	NA
Feb-02	NA	NA	NA	NA	NA	NA	NA.	NA.
Jun-02	724,000	14,600	22,500	NS-FP	812,000,000*	8,530	801,000,000*	22,700
Oct-02	52,300	7,370	29,900	NS-FP	NS-FP	5,300	52,300	1,730

NS-FP= Not Sampled Free Product present. *= Analysis of Free Product.

e 2: Detected VOCs		runatei Sai	inhis Keznarz	USER CPA	мештод 5260	(ug)L)		<u></u>	
VOCs	<u>Date</u>	MW-1	MW-2	MW-3	MW-4	LD41 e	1047	1 1 1 1 1	10141.0
Acetone	Oct-01	<1,250	<250	<u>√625</u>	NS-NW	<u>MW-6</u> <25,000°	MW-7	MW-8	MW-9
	Feb-02	<625	462.5	3,150	NS-FP	NS-FP	1,190		<u> </u>
· · · · · · · · · · · · · · · · · · ·	Jun-02	₹25	₹25	<25	NS-FP		746	1,22	
·	Oct-02	25	<25	<25	NS-FP	NS-FP	<25	NS-FP	<25
· · · · · · · · · · · · · · · · · · ·	+	 		125	NOTE	NS-FP	<25	NS-FP	<25
Benzene	Feb-94	194	<100	63	111	795	46		
	Nov-00	<2,500	61	73	NS-FP	NS-FP	65		
	Oct-01	125	105	1 110	NS-NW	110,000*	55	 }	
	Feb-02	231	204	108	NS-FP	NS-FP	63.2	 	┿
	Jun-02	300	222	125	NS-FP	NS-FP	<1	NS-FP	90.8
	Oct-02	245	177	99.2	NS-FP	NS-FP	121	NS-FP	693
·····			T	 	 	 	 '*' 	110-11	1 093
-Butanone (MEK)	Feb-94	NA I	NA	NA	NA	NA I	NA Í	 	
· · · · · · · · · · · · · · · · · · ·	Nov-00	3,100	<10,000	<10,000	NS-FP	NS-FP	1,400	 	
	Oct-01	<1,250	<250	500	NS-NW	<25,000*	980	 	 -
	Feb-02	<625	<62.5	<500	NS-FP	NS-FP	<50	 	
 	Jun-02	<25	<25	<25	NS-FP	NS-FP	<25	NS-FP	<25
	Oct-02	<25	<25	<25	NS-FP	NS-FP	<25	NS-FP	₹25
Chloroethane	Feb-02	<125	119	<100	NŞ-FP	NOFE	4-		
	Jun-02	<5	<5			NS-FP	17	 	
	Oct-02	- 	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ 	<5 <5	NS-FP	NS-FP	<5	NS-FP	<5
	++55.52		† ~~ †	 -~~-	NS-FP	NS-FP	<5	NS-FP	<5
,1-Dichloroethane	Feb-94	649	1,130	85	1410	2,260	2,130	 - -	
	Nov-00	17,000	1,800	800	NS-FP	NS-FP	2,800	 	+
	Oct-01	8,190	1,500	1,030	NS-NW	592,000*	2,670	╁╼╌┈	
·	Feb-02	20,600	2,310	1,350	NS-FP	NS-FP	5,490	 	
	Jun-02	18,900	2,700	1,340	NS-FP	NS-FP	4,150	NS-FP	1,210
	Oct-02	10,400	2,550	1,130	NS-FP	NS-FP	5,680	NS-FP	1,390
	<u> </u>				T		 		1,555
,2-Dichloroethane	Feb-94	<100	<100	<50	<100	1140	31	 	
	Nov-00	<2,500	<500	<500	NS-FP	NS-FP	<500	 	
	Oct-01	<250	<50	<125	NS-NW	<5,000*	<25	 	
	Feb-02	<125	<12.5	<100	NS-FP	NS-FP	43.4	 	
	Jun-02	<5	<5	<5	NS-FP	NS-FP	<5	NS-FP	<5
	Oct-02	<5	<5	<5	NS-FP	NS-FP	<5	NS-FP	<5

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VOCs	Date	MW-1	MW-2	MW-3	MW-4	MW-6	MW-7	B-WM	MW-9
1,1-Dichloroethene	Feb-94	2,210	2,460	2,800	806	1,240	151		
	Nov-00	3,000	<500	2,900	NS-FP	NS-FP	350		
	Oct-01	1,200	1,120	4,090	NS-NW	417,000*	355	 	
	Feb-02	4,050	1,480	3,900	NS-FP	NS-FP	778	 	
	Jun-02	4,900	2,090	2,690	NS-FP	NS-FP	423	NS-FP	1,540
	Oct-02	3,800	2,100	176	NS-FP	NS-FP	547	NS-FP	1,620
is 1,2-Dichloroethene	Feb-94	NA NA	NA	NA	NA	NA NA	NA		
	Nov-00	20,000	9,500	5,700	NS-FP	NS-FP	210	- 	
	Oct-01	10,300	9,150	7,000	NS-NW	1,060,000*			
·····	Feb-02	29,100	11,100	7,960	NS-FP	NS-FP	194 268	 	
	Jun-02	31,100	14,800	6,860	NS-FP	NS-FP	238	1 10 50	 -
	Oct-02	20,700	10,400	212	NS-FP	NS-FP		NS-FP	612
	1		10,700	- E1E	143-57	NO-FF	311	NS-FP	736
ns 1,2-Dichloroethene	Feb-94	NA NA	NA	NA I	NA	NA	NA NA		ļ
	Nov-00	<2,500	<500	<500	NS-FP	NS-FP	<500		ļ
	Oct-01	<250	<50	<125	NS-NW	<5,000°	<25		
	Feb-02	<125	<12.5	<100	NS-FP	NS-FP	<10	+	
	Jun-02	<5	<5	<5	NS-FP	NS-FP	<5	NS-FP	
	Oct-02	<5	<5	<5	NS-FP	NS-FP	<5 -	NS-FP	<u> </u>
		1	 	 	1	110-17	- ~-	143-FP	
Ethylbenzene	Feb-94	333	1,720	115	1,180	1,910	45		
	Nov-00	960	120	1,000	NS-FP	NS-FP	82	 	
	Oct-01	805	197	1,550	NS-NW	4,320,000*	107		-
	Feb-02	875	115	1,360	NS-FP	NS-FP	94.4		
	Jun-02	1,450	147	1,470	NS-FP	NS-FP	124	NS-FP	<u></u>
	Oct-02	884	469	945	NS-FP	NS-FP	213	NS-FP	<u> </u>
			 	 	 	+	213	110-FF	
Methylene Chloride	Feb-94	1,220	2,980	6,530	4,760	21,400	<50	 	
	Nov-00	1,100	180	5,600	NS-FP	NS-FP	180	+	
	Oct-01	<1,250	<250	<625	NS-NW	<5,000°	<125	 	 -
	Feb-02	<250	18.5	3,960	NS-FP	NS-FP	<20	 	
	Jun-02	<5	<5	<5	NS-FP	NS-FP	<5	NS-FP	<5
	Oct-02	<5	<5	<5	NS-FP	NS-FP	<5	NS-FP	\\\ \ <5
	1		<u> </u>	; 	····	1,10,1		INOTE	\ <u>``</u>

VOCs	Date	MW-1	SELLI A	PATEL A	+	 	 	1	<u> </u>
-Methyl-2-pentanone	Oct-01	<1,250	MW-2	MW-3	MW-4	MW-6	MW-7	MW-8	MW-9
month & besterions	Feb-02	<625	<250	4,130	NS-NW	<25,000*	625	<u> </u>	ļ
	Jun-02		<62.5	3,470	NS-FP	NS-FP	376	<u></u>	L
	Oct-02	<25	<25	2,850	NS-FP	NS-FP	388	NS-FP	<25
	1001-02	<25	<25	1,410	NS-FP	NS-FP	276	NS-FP	<25
Naphthalene	Oct-01	185	76	<125	NO MAN	4 500 0006		 	
	Feb-02	195	64	122	NS-NW	1,680,000*	85	- <u> </u> -	ļ
· · · · · · · · · · · · · · · · · · ·	Jun-02	<5	89.4	178	NS-FP	NS-FP	74.8	<u> </u>	
······································	Oct-02	3	62.2	59.2	NS-FP	NS-FP	116	NS-FP	<5
······································	00.02	 -~- -+	02.2	39.2	NS-FP	NS-FP	<5	NS-FP	<5
n-Propylbenzene	Jun-02	<5	28.5	<5	NS-FP	NS-FP	<5	NS-FP	
	Oct-02	<5	44.2	<5	NS-FP	NS-FP	<5	NS-FP	<5
		 	 	 	110-11	11017	- \ ``	NO-FP	<5
Tetrachloroethene	Feb-94	662	2,150	5,370	3,320	2,130	134		 -
	Nov-00	<2,500	<500	130	NS-FP	NS-FP	<500	 	
····	Oct-01	<100	<20	130	NS-NW	531,000*	100	 	
	Feb-02	20	3.3	302	NS-FP	NS-FP	8.2	- 	 -
	Jun-02	24.8	<5	133	NS-FP	NS-FP	<5	NS-FP	122
	Oct-02	<2	<2	39.3	NS-FP	NS-FP	2	NS-FP	190
		L	1			 	 	1	1 100
1,1-Trichloroethane	Feb-94	9,370	3,470	444	36,200	114,000	90	╁	-
	Nov-00	<2,500	<500	70	NS-FP	NS-FP	<500	 -	
	Oct-01	<250	<50	<125	NS-NW	28,100,000*	<25	 	
	Feb-02	<125	<12.5	<100	NS-FP	NS-FP	<10	 	
	Jun-02	<5	<5	<5	NS-FP	NS-FP	<5	NS-FP	<5
····-	Oct-02	<5	<5	ৰ্ব্ড	NS-FP	NS-FP	<5	NS-FP	92
Trishlaraeth	+	<u> </u>							1
Trichloroethene	Feb-94	7,160	3,040	1,730	14,300	1,320	45		
	Nov-00	<2,500	<500	1,500	NS-FP	NS-FP	<500	1	
	Oct-01	<100	<20	100	NS-NW	753,000*	<10		
	Feb-02	20	2.5	260	NS-FP	NS-FP	6.8		
	Jun-02	<5	<5	134	NS-FP	NS-FP	∜5	NS-FP	<5
· · · · · · · · · · · · · · · · · · ·	Oct-02	2	<2	28	NS-FP	NS-FP	V	NS-FP	56,6
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VOCs	<u>Date</u>	MVV-1	MW-2	MW-3	MW-4	MW-6	MW-7	MW-8	MW-9
2,4-Trimethylbenzene	Oct-01	1,590	18.9	345	NS-NW	22,100,000*	200	1	1
	Feb-02	2,800	231	668	NS-FP	NS-FP	234	† 	
	Jun-02	3,850	<5	618	NS-FP	NS-FP	238	NS-FP	<5
	Oct-02	2,120	116	299	NS-FP	NS-FP	327	NS-FP	<5
5 C T (I	 	 	<u> </u>	<u> </u>][
3,5-Trimethylbenzene	Oct-01	470	62.9	145	NS-NW	5,400,000*	25	T 1	
	Feb-02	955	57.8	126	NS-FP	NS-FP	45.6		<u> </u>
	Jun-02	1,170	57.5	<5	NS-FP	NS-FP	<5	NS-FP	<5
	Oct-02	574	67.8	57.8	NS-FP	NS-FP	<5	NS-FP	<5
Toluene	Feb-94	560	7,390		+ 40 0				
Tolderie	Nov-00	4,000	57	579	12,700	15,300	398		1
	Oct-01	2,470		3,700	NS-FP	NS-FP	800	<u> </u>	<u> </u>
,	Feb-02	4,860	26	5,150	NS-NW	9,010,000*	975	<u> </u>	ļ <u>.</u>
	 		26.2	4,520	NS-FP	NS-FP	1,330	<u> </u>	1
	Jun-02 Oct-02	6,180 5,390	102	4,780	NS-FP	NS-FP	1,280	NS-FP	<1
	00-02	3,390	39	4,810	NS-FP	NS-FP	2,560	NS-FP	<1
Vinyl Chloride	Oct-01	1,350	75	<5	NS-NW	<5,000⁺	188	 	
	Feb-02	1,060	197	896	NS-FP	NS-FP	517	+	
	Jun-02	<2	<2	<2	NS-FP	NS-FP	2	NS-FP	2
	Oct-02	2,860	2,710	12,200	NS-FP	NS-FP	684	NS-FP	123
						1		 	123
Xylenes `	Feb-94	2,192	7,790	1,014	4,362	4,710	166	 	 -
	Nov-00	3,400	<500	2,500	NS-FP	NS-FP	247		
	Oct-01	2,770	2	3,720	NS-NW	10,370,000	301	 	
	Feb-02	3,760	14.8	3,070	NS-FP	NS-FP	280	 	
	Jun-02	5,240	152	3,690	NS-FP	NS-FP	354	NS-FP	<1
	Oct-02	3,570	73	2,570	NS-FP	NS-FP	576	NS-FP	<1
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Table 2 (cont.): Detected	VOCs from	Groundwat	ter Sample	Results using	g EPA Metho	d 8260 (ug/L)			
VOCs	Date	MW-1	MW-2	MW-3	MW-4	MW-6	MW-7	MW-8	e-WM
DTW	Feb-94	30.05	28.80	29.70'	23.35'	24.85	24.53'	<u> </u>	
	Nov-00	35,62'	35.28'	36.42'	26.20'	28.52'	28.19'		
	Oct-01	37.41'	37.91'	39.19'	26.35'	NA NA	28.70'		1
· · · · · · · · · · · · · · · · · · ·	Nov-01	NA	NA	NA NA	26.36'	28.85'	NA I	1	· [
	Feb-02	36.2'	36.39	37.39'	26.44'	30.32	29.21'	<u> </u>	1
	Jun-02	37.92'	38.75	39.19'	26,46'	NA	30.07	30.91'	30.98'
	Oct-02	42.45'	43.66,	44.66'	26.48'	30.281	34.11'	32.68'	34.70'
Screened Interval (bg)	 	40'-60'	30'-50'	29'-49'	17'-27'	20'-30'	34'-55'	30.5'-40.5'	30,5'-45,5'
DTW= Depth to Water.		1		1	1	1	·	10000	1
NA= Not Analyzed.			+	 	 	 	 	1	
NS-FP= Not Sampled Free	e Product pr	esent.		Blue= Chei	nicals stored	on-site.	1		
NS-NW= Not Sampled No	t Enough W	ater present.			sformation co		1	 -	

issolved Metals	EPA Method	Date	MW-1	MW-2	MW-3	MW-4	MW-6	MW-7	MW-8	MW-9	MCLs
Antimony	7040	Oct-01	<0.5	<0.5	<0.5	NS-FP	NS-FP	<0.5			0.006
		Feb-02	<0.1	<0.1	<0.1	NS-FP	NS-FP	<0.1	-	-	•
		Jun-02	<0.005	<0.005	<0.005	NS-FP	NS-FP	<0.005	NS-FP	<0.005	
		Oct-02	<0.005	<0.005	<0.005	NS-FP	NS-FP	<0.005	NS-FP	<0.005	
Arsenic	7060	Oct-01	0.026	0.061	<0.005	NS-FP	NS-FP	0.071			0.05
		Feb-02	0.068	0.044	0.006	NS-FP	NS-FP	0.113			•
		Jun-02	0.064	0.046	<0.005	NS-FP	NS-FP	0.145	NS-FP	< 0.005	
		Oct-02	0.015	0.038	<0.005	NS-FP	NS-FP	0.078	NS-FP	<0.005	
Barium	7080	Oct-01	<0.5	<0.5	<0.5	NS-FP	NS-FP	<0.5			. 1
		Feb-02	< 0.005	<0.005	<0.005	NS-FP	NS-FP	<0.005			
		Jun-02	0.8	0.88	0.51	NS-FP	NS-FP	0.68	NS-FP	0.66	
		Oct-02	0.984	0.962	0.91	NS-FP	NS-FP	0.897	NS-FP	0.683	
Beryllium	7090	Oct-01	<0.05	<0.05	<0.05	NS-FP	NS-FP	<0.05			0.00
	_	Feb-02	< 0.005	<0.005	<0.005	NS-FP	NS-FP	< 0.005			
		Jun-02	<0.002	<0.002	<0.002	NS-FP	NS-FP	< 0.002	NS-FP	< 0.002	
		Oct-02	<0.002	<0.002	<0.002	NS-FP	NS-FP	<0.002	NS-FP	<0.002	
Cadmium	7130	Oct-01	<0.05	<0.05	<0.05	NS-FP	NS-FP	<0.05			0.00
	-	Feb-02	<0.04	<0.04	<0.04	NS-FP	NS-FP	< 0.04			
		Jun-02	<0.005	<0.005	<0.005	NS-FP	NS-FP	<0.005	NS-FP	< 0.005	
-		Oct-02	<0.005	<0.005	<0.005	NS-FP	NS-FP	<0.005	NS-FP	<0.005	
Chromium	7190	Oct-01	<0.1	<0.1	<0.1	NS-FP	NS-FP	<0.1			0.08
		Feb-02	<0.02	<0.02	<0.02	NS-FP	NS-FP	<0.02			
•		Jun-02	0.015	0.016	0.016	NS-FP	NS-FP	0.017	NS-FP	0.019	•
		Oct-02	0.0188	0.0185	0.02	NS-FP	NS-FP	0.021	NS-FP	0.024	
Cobalt	7200	Oct-01	<0.1	0.12	<0.1	NS-FP	NS-FP	<0.1			Non
		Feb-02	<0.04	<0.04	<0.04	NS-FP	NS-FP	<0.04			
		Jun-02	0.23	0.2	0.18	NS-FP	NS-FP	0.11	NS-FP	0.18	
		Oct-02	<0.1	<0.1	< 0.1	NS-FP	NS-FP	<0.1	NS-FP	<0.1	

ssolved Metals	EPA Method	Date	MW-1	MW-2	MW-3	MW-4	MW-6	MW-7	MW-8	MW-9	MCL
Copper	7210	Oct-01	<0.05	<0.05	<0.05	NS-FP	NS-FP	<0.05	. —— .		1.3
		Feb-02	<0.005	<0.005	<0.005	NS-FP	NS-FP	<0.005		•	
		Jun-02	<0.1	<0.1	<0.1	NS-FP	NS-FP	<0.1	NS-FP	<0.1	
	-	Oct-02	<0.1	<0.1	<0.1	NS-FP	NS-FP	<0.1	NS-FP	<0.1	
Lead	7240	Oct-01	<0.1	<0.1	<0.1	NS-FP	NS-FP	<0.1			0.05
		Feb-02	<0.002	<0.002	<0.002	NS-FP	NS-FP	<0.002		•	
		Jun-02	<0.005	<0.005	<0.005	NS-FP	NS-FP	<0.005	NS-FP	<0.005	
-		Oct-02	<0.005	<0.005	<0.005	NS-FP	NS-FP	<0.005	NS-FP	<0.005	
Mercury	7471	Oct-01	<0.001	<0.001	<0.001	NS-FP	NS-FP	<0.001			0.002
_	•	Feb-02	< 0.001	<0.001	<0.001	NS-FP	NS-FP	<0.001			
·	•	Jun-02	< 0.001	<0.001	<0.001	NS-FP	NS-FP	< 0.001	NS-FP	< 0.001	
		Oct-02	<0.001	<0.001	<0.001	NS-FP	NS-FP	< 0.001	NS-FP	<0.001	
Molybdenum	7480	Oct-01	<0.4	<0.4	<0.4	NS-FP	NS-FP	<0.4			0.035
		Feb-02	<0.1	<0.1	<0.1	NS-FP	NS-FP	<0.1			0.040
		Jun-02	< 0.035	< 0.035	< 0.035	NS-FP	NS-FP	<0.035	NS-FP	< 0.035	
		Oct-02	<0.035	<0.035	<0.035	NS-FP	NS-FP	<0.035	NS-FP	<0.035	
Nickel	7520	Oct-01	<0.1	<0.1	<0.1	NS-FP	NS-FP	<0.1			0.1
		Feb-02	< 0.04	<0.04	<0.04	NS-FP	NS-FP	< 0.04			
		Jun-02	0.14	0.17	0.2	NS-FP	NS-FP	0.21	NS-FP	0.18	
		Oct-02	<0.05	<0.05	<0.05	NS-FP	NS-FP	<0.05	NS-FP	<0.05	
Selenium	7740	Oct-01	<0.005	<0.005	<0.005	NS-FP	NS-FP	<0.005			0.05
		Feb-02	<0.005	<0.005	<0.005	NS-FP	NS-FP	< 0.005	•	•	
		Jun-02	<0.005	<0.005	<0.005	NS-FP	NS-FP	<0.005	NS-FP	< 0.005	
	-	Oct-02	<0.005	<0.005	<0.005	NS-FP	NS-FP	<0.005	NS-FP	<0.005	
Silver	7760	Oct-01	<0.05	<0.05	<0.05	NS-FP	NS-FP	< 0.05			0.1
•		Feb-02	<0.005	<0.005	<0.005	NS-FP	NS-FP	<0.005	•	-	
		Jun-02	<0.01	<0.01	<0.01	NS-FP	NS-FP	<0.01	NS-FP	<0.01	
•	•	Oct-02	< 0.01	<0.01	< 0.01	NS-FP	NS-FP	<0.01	NS-FP	< 0.01	

issolved Metals	EPA Method	<u>Date</u>	MW-1	MW-2	MW-3	MW-4	MW-6	MW-7	MW-8	MW-9	MCLs
Thallium	7840	Oct-01	<0.2	<0.2	<0.2	NS-FP	NS-FP	<0.2			0.002
•		Feb-02	<0.005	<0.005	<0.005	NS-FP	NS-FP	<0.005	•		
	•	Jun-02	<0.002	< 0.002	<0.002	NS-FP	NS-FP	<0.002	NS-FP	<0.002	
		Oct-02	<0.002	<0.002	<0.002	NS-FP	NS-FP	<0.002	NS-FP	<0.002	
Vanadium	7910	Oct-01	<0.5	<0.5	<0.5	NS-FP	NS-FP	<0.5			0.06
		Feb-02	0.03	0.05	0.16	NS-FP	NS-FP	0.14			÷
•		Jun-02	<0.06	< 0.06	<0.06	NS-FP	NS-FP	<0.06	NS-FP	< 0.06	•
		Oct-02	<0.06	<0.06	<0.06	NS-FP	NS-FP	<0.06	NS-FP	<0.06	
Zinc	7950	Oct-01	<0.05	<0.05	<0.05	NS-FP	NS-FP	<0.05		-	5
		Feb-02	<0.01	<0.01	<0.01	NS-FP	NS-FP	<0.01			
-		Jun-02	0.07	0.04	0.05	NS-FP	NS-FP	0.04	NS-FP	0.23	
-		Oct-02	<0.01	<0.01	< 0.01	NS-FP	NS-FP	< 0.01	NS-FP	< 0.01	

MCLs= Maximum Contaminant Levels.

^{* =} Health Advisories.

ANCHEMØØ77

WELL GAUGING DATA

Project # 02/007-HG./	Date 15/7	Client _	Stekely	Env. Inv	<u> </u>
	•				
A Company	1 0	·		Ċ	

			•						. ~	A.
Well ID.	Well Size (m)	Specta /	Depth to priviscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Reinoved (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Pend: TOB or For		
Mus 1.	4	a parties and a second				4245	6.42	7°C		
14-2	4	de				4366	5195			¥.
MW-5	4					44.66	51.72			1,6
MULY	4	ds	2642	0.06	0.0	26.48	رار المستبقد الرار المستبقد			
Mt	4	- Els-	2289	0.39	00	F0.28	30.28	3.77 3.78	*	
MAJ	`Z.	pla	***		.1	341/	5%50			
MN-8	4	do	3176	192	020	3268				
MAG	4					34.70	45.62			
									Ú.	
								7.300		
WS-WM-			man of the control of							
	41 <i>i</i> 0	l <i>a</i> ye	βŁ OF	WΑ	FOR A	ர கூ	TOM.	OF		10 m
W	سال		0.01	feet						का .(8%
			y y							
44								And the second		
		and the state of t			·		**	2.00		(*******
										' . ·.

		W	LL MONIT	ORING DATA	A SHELT			
Project #: 02/007 - KG-1				Client: B	lakely Env.	In	<u>r</u>	
Sampler:	4.4.			Start Date: 10/7/02				
Well I.D.				Well Diameter	r: 2 3 <i>(</i> 4) 6	8	
Total We	ell Depth:			Depth to Water: 80% = 46.24				
Before:	61.42	After:		Before: 4245 After: 42.85				
Depth to	Free Produc	ot:		Thickness of F	ree Product (f	eet):		
Referenc		(PVC)	Grade	D.O. Meter (if	req'd);	YŠI	HACH	
Purge Meth	od: Bailer Disposable Bail Middleburg Electric Subme		Waterra Peristaltic Extraction Pump Caher 2 Gran	Sampling Method	Disposable Bailer Extraction Port Dedicated Tubing			
1 " ".	h/jc (2 /2 (Gals.) X me Specifie		/ O _ 50^ Gals. Calculated Volum	well Dianes 1" 2" 3"	0.04 4° 0.16 6°	Etameter her	Multipher 0.65 1.47 vadius ² * 0.163	
Time	Temp.	Нq	Conductivity (mS on μS)	Turbidity (NTU)	Gals. Removed	Dru pt	oservations	
1226	76.7	6.73	2249	10	12_	47.11	oder	
1238	758	6.87	2114	8	24	48/9	vdo-112	
1244.	75.1	6.88	2098	8	37	5≥00	do	
Did well	dewater?	Yes (พื่อ)	Gallons actuall	y cvacuated:	アフ		
Sampling	Time: /-	412		Sampling Date:	7	· /		
Sample I.	D.: MW-1	!		Laboratory:				
Analyzed	for: трн-G	BTEX M	тве трн-ю	Other:	RIP Black : JA	un fina	Lider	
Equipmen	rt Blank I.D.		@ Time .	Duplicate I.D.	MW-5	@	1412	
Analyzed	for: трн-G	втвх м	TBE TPH-D	Other:	-			
D.O. (if re	eq'd):		Pro-purge:	TL THE	Post-purge;		m#/L	
ORP (if re	eo'd):		Pre-purge:	πV	Post-mirror			

		W	LLL MONI	CORING	J DAT A	A SHELL				
				Client: Blakely Env. Inv.						
					Start Date: /5/7/52					
Well I.D.: ML-2-				Well D	iameter	: 2 3 @) 6	8		
Total Well Depth:					Depth to Water: 802 = 45.32 Before: 43.66 After: 46-51					
Before: 51.95 After:					436	16	Afte	x: 46-57 (2		
Depth to Free Product:					ess of F	ree Product (f	eet):			
Reference	d to:	(PVC)	Grade	D.O. M	leter (if	req'd):	YSI	НАСН		
	od: Bailer Disposable Bai Middleburg Electric Subme		Waterra Peristaltic Extraction Pump. Other 2	·	Method:	Disposable Baile Extraction Port Dedicated Tubing				
<i>"</i>	nge @ /\/ Gals.) X e Specific	<u>rs</u> @			Well Districts 1" 2" 3"	0.04 4" 0.16 6"		Multiplica. 0.65 1.47 186701 ^{2 a} 0.163		
Time	Temp.	рН	Conductivity (mS or (µS))	Turbidit	y (NTU)	Gals. Removed	اساء	Observations		
1055	754	6.89	2010	7.	7	5	47.6	odor		
H 00 -MG	Well	Denotore	108	sellow		to ma	+-	DTW=50.17		
(begin p	n/se 130	- @. O.	5 som)			· · · · · · · · · · · · · · · · · · ·				
1309	77.5	6.71	1984	5	4	10	46.92	do		
1323	78.4	6.72	1996	Z	<u>ን</u>	17	48.1			
Did well d	ewater? (Yes	No	Gallons	actually	y evacuated: {	<u> </u>			
Sampling '	Time: /4	149		Samplin	g Date:	10/7/02		· · ·		
Sample I.E).: MW-Z			Laborate	ory:					
Analyzed f	OF: TPH-G	BTEX M	птве трн-d	Other:						
3quipment	Blank I.D.		@ Tieve	Duplicat	e I.D.:					
Analyzed f	or: TPH-O	BTEX M	itbe tph-d	Other:						
O.O. (if rec	(d):		Pre-purge:		mg/L	Post-purge:		mt/L		
700 /if			B		w17	Doot ware				

		W .	LLL MONIT	ORING DATA	A SHEL [
Project #: 02/007-KG-1				Client: Blakely Env. Inv.					
Sampler: MG				Start Date: /a/7/a2					
Well I.D.: MW-3				Well Diameter	. 2 3 4	68	_		
Total We	ell Depth:			Depth to Water: 80%=46.07					
Before:	51.72	After:		Before:	Before: 44.66 After: 45.9/				
Depth to	Free Produc			Thickness of F	ree Product (fe	ct);			
Referenc		(PVC)	Grade	D.O. Meter (if	req'd):	YSI HAC	TH ·		
Purge Meth	od: Bailer Disposable Bai Middleburg Electric Subme	~	Waterra Peristaltic Extraction Pump Other 2 6		Disposable Bailer Extraction Port Dedicated Tubing				
	onoge @ #6 (Gala) X	d Volumes	13.8 Gals. Calculated Volum		7 Multipliet Well 0.04 4* 0.16 6* 0.37 Oths	Discreeter Multiplier 0.65 1.47 ruling **			
Time	Temp.	μΉ	Conductivity (mS or \(\mu \)S)	Turbidity (NTU)	Gals. Removed	071-Observation	ons		
1127	76.8	7.08	1912	17	سر	18.90 de	+ dassp		
1137	77.9	6.93	1951	14	J:s	49.23 odor	(10.25 gon		
1153	80-3	6-91	1966	9	14	soso odn			
			,						
Did well	dewater?	Yes (No)	Gallons actuall	y evacuated:	14			
Sampling	Time: /4	10Z		Sampling Date:	,, <u> </u>				
Sample I.	D.: MW3	>		Laboratory:					
Analyzed	for: TPH-G	BTEX M	TBE TPH-D	Other:					
Equipmen	rt Blank I.D.		@ Tipe	Duplicate I.D.:					
Analyzed	for: трн-G	втех м	TBE TPH-D	Other:					
D,O. (if r	eq'd):		Pre-purge:	me/L	Post-purge:		ms/ _L		
ORP (if n	eq'd):		Pre-purge:	mV	Post-purge:	· · · · · · · · · · · · · · · · · · ·	mŸ		

	WELL MON	ITORING DAT	A SHELL					
Project #: 02/00	7- KG:1	Client:	01//					
Sampler: MG		Start Date:						
Well LD.: MW.4		Well Diamete	er: 2 3 📿	0 6 8				
Total Well Depth:		Depth to Wat	Depth to Water: 26-48					
	After:	Before:		After:				
Depth to Free Product:	26.42	Thickness of	Free Product (f	eet): 0-06				
Referenced to: (PVC) Grade	D.O. Meter (i		YSI HACH				
Purge Method: Batler Disposable Bailer Middleburg Elactric Submersit	Extraction Pum	_	Disposable Baries Extraction Port Dedicated Tubins					
(Gals.) X 1 Case Volume Specified V	==Ga /ohumes	1 1 40	0.04 4" 0.16 6"					
Time (°F or °C)	pH (mS or μS)	-) Gals. Removed	Observations				
	ball -	istophu p	le -					
)	ample Token		<u> </u>					
Did well dewater? Ye	os No	Gallons actual	ly evacuated					
Sampling Time:		Sampling Date	: 10/7/02	1				
Sample I.D.;		Laboratory:						
Analyzed for: The G	этех мтве три-о	Other:						
Equipment Blank I.D.:	@ Time	Suplicate I.D.:	:					
Analyzed for: TPH-G B	тах мтве трн-о	Other						
D.O. (if req'd):	Pre-purge	mg/L	Post-purge:	™ ₹ /_				
ORP (if red'd):	Pre-nurge		Post myses					

W_LL MONITORING DATA SHEET										
Project#: 02/007-KG-1	Client: Blakely Env. Inv.									
Sampler: MG	Start Date: /0/7/02									
Well I.D.: MW-6	Well Diameter: 2 3 (4) 6 8									
Total Well Depth:	Depth to Water: 30.28									
	Before: After:									
Depth to Free Product: 29.89	Thickness of Free Product (feet): 0.79									
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH									
Purge Method: Bailer Waterra Disposable Bailer Peristaltic Middleburg Extraction Pump Electric Submersible Other	Sampling Method: Bailer Disposable Bailer Extraction Port Dedicated Tubing Other:									
(Gals.) X Gals. 1 Case Volume Specified Volumes Calculated Volumes	1 1° 037 DDur									
Time (°F or °C) pH (mS or μS)	Turbidity (NTU) Gals. Removed Observations									
- SPH Setectal w/ in	torphace jude -									
- No Sample Tekm										
Did well dewater? Yes No	Gallons actually evacuated:									
Sampling Time:	Sampling Date: /ɔ/ʔ/٥2									
Sample I.D.: MW-6	Deboratory:									
Analyzed for: TPH G BTEX MTBE TPH-D	Othor:									
Equipment Blank I.D.:	Duplicate KD.:									
Analyzed for: TPH-G BTEX MTRE TPH-D	Other:									
D.O. (if req'd): Pre-purge:	TIME									
ODD (if maid):	mV C Post nibras									

Blaine Tech Services, Inc. 1680 Rogors Ave., San Jose, CA 95112 (408) 573-0555

		W	LL MONIT	WELL MONITORING DATA SHEL (
Project #:	0210	07 – KG			akoly Env.	I	br								
Sampler:	MG	+ / 1 / - /		Start Date: 10/7/02											
	: MW-7			Well Diameter:	2 3 4	6	8								
Total We	,			Depth to Water	:: <u> </u>	0%	= 37.65								
Before:		After:		Before: 34	(/)	After	34.37								
<u> </u>	Free Produc	:t: ·	· · · · · · · · · · · · · · · · · · ·	Thickness of F	ree Product (fo	et):									
Reference		PVC	Grade	D.O. Meter (if	rcq'd):	YSl	HACH								
Purge Meth	od: Bailer Disposable Bai Middleburg Electric Submer		Waterra Peristaltic Extraction Pump Other 2 grand	Sampling Method: Other:	Disposable Bailor Extraction Port Dedicated Tubing	>									
1		O/.U d Volumes	S Gais. Calculated Volum	Well Districts 1" 2" 3"	m Multiplier Well 0.04 4" 0.16 6" 0.37 Olim	<u>Diameter</u>	Multiplier 0.65 1.47 vadica ^{3 *} 0.161								
Time	Temp.	pН	Conductivity (mS or (13)	Turbidity (NTU)	Gals. Removed	Ori~	Observations								
0955	75.2	6.56	2926	126	3	427	strong ofor								
095%	75.1	6.59	2851	<u>ئار</u> .	6	45.96	strong of a								
1001	74.8	6.60	285/	171	9	4720	dr, blak								
			, .,				٠.								
Did well	dewater?	Yes (No)	Gallons actuall		1									
Sampling	Time: /5	740		Sampling Date:	12/7/02										
Sample I.	D.: MW-	<u> </u>	<u> </u>	Laboratory:											
Analyzed	for: TPH-G	BIEX V		Other:											
Equipmen	nt Blank I.D		@ Time	Duplicate I.D.:		-									
Analyzed	for: TPH-G	BTEX M	стве трн-го	Other:											
D.O. (if r	eq'd):		Pre-purge:	me/L	Post-purge:		*****/ _L								
ORP (if r	eq'd):		Рте-ригде:	mV	Post-purge:		mV								

Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (408) 573-0555

WELL M	ONTIG	KHING	DAXA	OLLEGES X		
Project#: 02/007 - H.G./		Client:	DIA	dy En. I	Ber ·	
Sampler: MG		Start Date: /5/7/52				
Well I.D.: MWB	1	Well Diameter: 2 3 (4) 6 8				
Total Well Depth:)	Depth t	o Water	72-68		
Before: After:		Before:			After:	
Depth to Free Product: 3674		Thickn	ess of F	ree Product (f	eet): 0-92	
	ede]	D.O. M	eter (if	reg'd):	ysi hacii	
Purge Method: Bailer Waterra Disposable Bailer Peristalti Middleburg Extractio Electric Submersible Other	: в Рини	Sampling	y Method: C	Bailer Disposable Bailer Extraction Port Dedicated Tubin		
			Well Diamete		il Diameter Multinlier	
			1" 2"	0.04 4° 0.16 6°	1.47	
(Gals.) X =	Gals. ed Vo <u>lume</u>		3"	0,37 O	ther radius 0.163	
Temp. Condu	ctivity or μS)	Turbidit	y (NTU)	Gals. Remove	d Observations	
-5PH detected 1	1 -	**************************************	lose p	Se -		
- None bould,	'		·			
- Grat / samp	<u>l-</u>					
Did well dewater? Yes		Gallon	s actuall	y evacuated:	سند	
Sampling Time: /500	1	Sampli	ng Date	: 10/7/52		
Sample I.D.: MW-8	. 1	Labora	tory:			
	rpH-D (Other:				
<u> </u>	Tione]	Duplicate I.D.:				
	rph-D (Other:				
D.O. (if req'd):	-purge:		mg/L	Post-purg	e: "**/L	
ORP (if req'd): Pro	-purge:		mV	Post-purg	mV	

Blaine Tech Services, Inc. 1680 Rogers Ave., Sen Jose, CA 95112 (408) 573-0555

		Wh	LL MONIT	ORING DATA	SHEET				
Project#:	0210	07 – KG			Koly Env.	Inv.			
Sampler:	4.4			Start Date: 10/7/02					
	MW-9			Well Diameter: 2 3 (4) 6 8					
Total We				Depth to Water		80%=36.88			
	45.62	After:		Before: 3	470	After: ₹5.00			
	Free Produc			Thickness of F	ree Product (fee	et):			
Reference		PVC	Grade	D.O. Meter (if	req'd):	ysi hach			
Purge Meth	od: Bailer Disposable Bail Middleburg Electric Subme		Waterra Peristaltic Extraction Pump Other 2 " Grand	Sampling Method: Other:	Bailer Disposable Bailer Extraction Port Dedicated Tubing	>			
	(Gele.) X	@ Z,0		Woll Diamste	7 Multiplies Well 0.04 4" 0.16 6" 0.37 Outs	Diameter Multiplier 0.65 1.47 r radius ^{2 =} 0.163			
Time	Temp.	pН	Conductivity (mS or (S))	Turbidity (NTU)	Gais. Removed	O) Dbsorvations			
1023.	73.2	6.79	2307	24	7	38.04 clan			
1027	77.3	6.79	2293	14 .	14	41. m cla			
1030.	73.3	6.84	2296	//	22	4218 dan			
/									
		<u> </u>		· · · ·		_			
Did well	dewater?	Yes	(No)	Gallons actuall	y evacuated: 2	22			
Samplin		348		Sampling Date	: 10/7/02				
	LD.: Mb/-			Laboratory:		,			
Analyze	d for: TPH-G		MTBR TPH-D	Other:					
 	nt Blank I.E		@ T==	Duplicate I.D.:					
Analyze	d for: TPH-G	BTEX I	мтвв трн - D	Other:					
D.O. (if	req'd):		Pre-purge:	™g/L	Post-purge:	T-16/ _{T.}			
ORP (if	req'd):		Pro-purge:	mV	Post-purge:	, mV			

Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (408) 573-0555

ANCHEMØØ88

Recycled Stock # Blakley-6-S



Environmental Laboratories

10-21-2002

Mr. Hiram Garcia Blakely Environmental Investigations, Inc. 9605 Arrow Highway, Suite T Rancho Cucamonga, CA 91730

Project:

Angeles Chemical Co.

Project Site:

8915 Sorensen Ave., Santa Fe Springs, CA

Sample Date:

10-07-2002

Lab Job No.:

BL210034

Dear Mr. Garcia:

Enclosed please find the analytical report for the sample(s) received by STS Environmental Laboratories on 10-07-2002 and analyzed for the following parameters:

EPA 8021B (BTEX,MTBE)/8015M (Gasoline)

EPA 8260B (VOC's by GC/MS)

EPA 314 (Perchlorate by Ion Chromatography)

EPA 314 analysis was subcontracted to Associated Laboratories. Their original report is attached.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

STS Environmental Laboratory is certified by CA DHS (Certificate Number 1986). Thank you for giving us the opportunity to serve you. Please feel free to call me at (323) 888-0728 if our laboratory can be of further service to you.

Sincerely,

Roger Wang, Ph. D. Laboratory Director

Enclosures

This cover letter is an integral part of this analytical report.

ANCHEM0089



Environmental Laboratories

10-21-2002

Client:

Blakely Environmental Investigations, Inc.

Lab Job No.:

BL210034

Project:

Angeles Chemical Co.

Date Sampled:

10-07-2002

Project Site:

8915 Sorensen Ave., Santa Fe Springs, CA

10-07-2002

Matrix:

Water

Date Received: Date Analyzed:

10-09-2002

Batch No.:

AJ09-GW1

EPA 8015M (Gasoline) Reporting Units: µg/L (ppb)

Sample ID	Lab ID	Gasoline (C4-C12)	Method Detection Limit	PQL
Method Blank		ND	50	50
MW-1	BL210034-1	52,300	50	1,000
MW-2	BL210034-2	7,370	50	500
MW-3	BL210034-3	29,900	50	500
MW-7	BL210034-5	5,300	. 50	500
MW-9	BL210034-6	1,730	50	50
ТВ	BL210034-7	ND	50	50

Not Detected (at the specified limit) ND:

POL: Practical Quantitation Limit.

ANCHEMØØ9Ø



Environmental Laboratories

10-21-2002

Client:

Blakely Environmental Investigations, Inc.

Lab Job No.:

BL210034

Project:

Angeles Chemical Co.

Date Sampled:

10-07-2002

Project Site:

8915 Sorensen Ave., Santa Fe Springs, CA

Date Received:

10-07-2002

Matrix:

Date Analyzed:

10-09-2002

Batch No.:

1009-M1

EPA 7000 Series for CAM Metals (TTLC)

Reporting Units: mg/L (ppm)

Florest	EPA	Method	MW-1	MW-2	MW-3	MDL	PQL
Element	Method	Blank	BL210034-1	BL210034-2	BL210034-3	1411.513	
Antimony (Sb)	7040	ND	ND	ND	ND	0.005	0.005
Arsenic (As)	7060	ND	0.015	0.038	ND	0.005	0.005
Barium (Ba)	7080	ND	0.984	0.962	0.910	0.20	0.20
Beryllium (Be)	7090	ND	ND	ND	ND	0.002	0.002
Cadmium (Cd)	7130	ND	ND	ND	ND	0.005	0.005
Chromium (Cr)	7190	ND	0.0188	0.0185	0.020	0.01	0.01
Cobalt (Co)	7200	ND	ND	ND	ND	0.10	0.10
Copper (Cu)	7210	ND	ND	ND	ND	0.10	0.10
Lead (Pb)	7420	ND	ND	ND	ND	0.005	0.005
Mercury (Hg)	7471	ממ	ND	ND	ND	0.001	0.001
Molybdenum (Mo)	7481	ND	ND	ND	ND	0.035	0.035
Nickel (Ni)	7520	ND	ND	ND	ND	0.05	0.05
Selenium (Se)	7740	ND	ND	ND	ND	0.005	0.005
Silver (Ag)	7760	ND	ND	ND	ND	0.01	0.01
Thallium (Tl)	7840	ND	ND	ND	ND	0.002	0.002
Vanadium (V)	7911	ND	ND	ND	ND	0.060	0.060
Zinc (Zn)	7950	ND	ND	ND	ND	0.01	0.01

Not Detected (at the specified limit). ND:

MDL: Method Detection Limit. PQL: Practical Quantitation Limit.

ANCHEM0091

7801 Telegraph Road Suite L. Montebello. CA 90640



Environmental Laboratories

10-21-2002

Client:

Blakely Environmental Investigations, Inc.

Lab Job No.:

BL210034

Project:

Angeles Chemical Co.

Date Sampled:

10-07-2002

Project Site:

8915 Sorensen Ave., Santa Fe Springs, CA

Date Received:

10-07-2002

Matrix: Batch No.:

water 1009-M1

Date Analyzed:

10-09-2002

EPA 7000 Series for CAM Metals (TTLC)

Reporting Units: mg/L (ppm)

			·			
	EPA	Method	MW-7	MW-9	MDL	PQL
Element Method E		Blank	BL210034-5	BL210034-6		
Antimony (Sb)	7040	ND	ND	ND	0.005	0.005
Arsenic (As)	7060	ND	0.078	ND	0.005	0.005
Barium (Ba)	7080	ND	0.897	0.683	0.20	0.20
Beryllium (Be)	7090	ND	ND	ND	0.002	0.002
Cadmium (Cd)	7131	ND	ND	ND	0.005	0.005
Chromium (Cr)	7190	ND	0.021	0.024	0.01	0.01
Cobalt (Co)	7200	ND	ND	ND	0.10	0.10
Copper (Cu)	7210	ND	ND	ND	0.10	0.10
	7420	ND	ND	ND	0.005	0.005
Lead (Pb)	7471	ND	ND	ND	0.001	0.001
Mercury (Hg)	/4/1	IND	IND .			
Molybdenum (Mo)	7481	ND	ND	ND	0.035	0.035
Nickel (Ni)	7520	ND	ND	ND	0.05	0.05
Selenium (Se)	7740	ND	ND	ND	0.005	0.005
Silver (Ag)	7760	ND	ND	ND	0.01	0.01
	7840	ND	ND	ND	0.002	0.002
Thallium (Tl)			<u>i</u>	ND	0.060	0.060
Vanadium (V)	7911	ND	ND		0.01	0.01
Zinc (Zn)	7950	ND	מא	ND	0.01	

ND: Not Detected (at the specified limit).

MDL: Method Detection Limit.
PQL: Practical Quantitation Limit.

ANCHEMO093



Environmental Laboratories

Client: Blakely Environmental Investigations, Inc.

7801 Telegraph Road Suite L. Montebello, CA 90640

Lab Job No.: BL210034

Date Reported: 10-21-2002

Project: Angeles Chemical Co.

Matrix: Water

Date Sampled: 10-07-2002

EPA 8260B (VOCs by GC/MS, Page 1 of 2) Reporting Unit: ppb

EPA 8260B (VOCs by GC/MS, Page 1 of 2) Reporting Unit: ppo DATE ANALYZED 10-10 10-10-02 10-10-02 10-10-02 10-10-02 10-10-02 10-10-02										
H			10-10					50	5	
DILUTIO		100	10	10	50		BL210034-6			
u	AMPL					BL210034-3			MW-9	
CLIENT S				MW-1	MW-2	MW-3	MW-5	MW-7	MW-9	
COMPOUND	MDL	PQL	MB							
Dichlorodifluoromethane	5	5	ŇD	ИD	ND	ND	ND	ND	ND	
Chloromethane	5	5	ND	ND	ND	ND	ND	ND	ND	
Vinyl Chloride	2	2	ND	2,860	2,710	12,200	2,260	684	123	
Bromomethane	5	5	ИD	ND	ND	ИD	ND	ND	ND	
Chloroethane	5	5	ND	ŊD	ND	"ND	ND	ND	ND	
Trichlorofluoromethane	5	5	ND	ND	ND	ND	ND	ИD	ND	
1,1-Dichloroethene	5	5	ND	3,800	2,100	176	3,460	547	1,620	
Iodomethane	- 5	5	ND	ND	ND	ND	ND	ND	ND	
Methylene Chloride	5	5	ИD	ND "	ND	ND	ND	ND	ND	
trans-1,2-Dichloroethene	5	5	ND	ND	ND	· ND	ND	ND	ND	
1.1-Dichloroethane	5	5	ND	10,400	2,550	1,130	9,740	5,680	1,390	
2,2-Dichloropropane	5	- 5	ИD	ŊD	ИD	ND	ND	ND	ND	
cis-1,2-Dichloroethene	5	5	ND	20,700	10,400	212	19,700	311	736	
Bromochloromethane	5	- 5	ND	ND	ND "	ИD	ND	ND	ND	
Chloroform	5	5	ND	ND	ND	ND	ND	ND	ND	
1.2-Dichloroethane	5	5	ND	ND	ND	ND	ND	ND	ND	
1.1.1-Trichloroethane	5	5	ND	ND	ИD	ND	ND	ND	92.0	
Carbon tetrachloride	3	- 5	ΝD	ND	ND	ИD	ND	"ND	ND	
1,1-Dichloropropene	5	5	ND	ND	ND	ND	ND	ND	ND	
Benzene	1	1	ND	245	177	99.2	ND	121	893	
Trichloroethene	2	2	ND	ND	ND	28.0	ND	ND	56.6	
1.2-Dichloropropane	-5	5	ND	ND	ND	NĎ	ND	ND	ND	
Bromodichloromethane	5	5	ND	ND	ND	ND	ND	ND	ND	
Dibromomethane	5	5	ND	ND	ND	ND	ND	ND	ND	
trans-1,3-Dichloropropene	3	- 5	ND	ND	ND	ND	ND	ND	ND	
cis-1,3-Dichloropropene	5	5	ND	ND	ND	ND	ND	ND	ND	
1,1,2-Trichloroethane	5	~ 5	ИD	_ ND	ND	ND	ND	ND	ND	
1,3-Dichloropropane	5	5	ND	ND	ND	ND	ND	ND	ND	
Dibromochloromethane	5	5	ND	ND	ND	ND	ND	ND	ND	
2-Chloroethylvinyl ether	5	5	ΝD	ND	ND	ND	ND	ND	ND	
Bromoform	5	5	ND	ND	ND	ND	ND	ND	ND	
Isopropylbenzene	5	3	ND	_ ND	ND	ND	ND	ND	ND	
Bromobenzene	5	5	ND	ND	ND	ND	ND	ND	ND	

ANCHEM0093



Environmental Laboratories

Client: Blakely Environmental Investigations, Inc.

Project:Angeles Chemical Co.

Lab Job No.: BL210034

Matrix: Water

Date Reported: 10-21-2002

Date Sampled: 10-07-2002

EPA 8260B (VOCs by GC/MS, Page 2 of 2) Reporting Unit: (ppb)

Tolluene	COMPOUND	MDL	PQL	МВ	MW-1	MW-2	MW-3	MW-5	MW-7	MW-9
Tetrachloroethene		1	_		1	1				ND
1.2.2-Dibromoethane(EDB)	m +	1 2	2			ND	39.3	ND	ND	190
Chlorobenzene			L			ND	ND	ND	ND	ND
							ND	ND	ND	ND
Ethylbenzene		1					ND	ND	ND	ND
Total Xylenes			l i			469	945	1,040	213	
Styrene		- 	1		3,570	73.2	2,570	4,010	576	
1,1,2,2-Tetrachloroethan			- 5			ND		ND	ND	ND
1,2,3-Trichloropropane	1 1 2 2-Tetrachloroethan		3		ND	ND	ND	ND	ND	ND
n-Propylbenzene	1 2 3-Trichloropropane				V .	ND	ND	ND	ND	ND
2-Chlorotoluene				1		44.2	ND	ND	ND	ND
4-Chlorotoluene 5 5 ND		_	_			ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene		1	l			ND	ND	ND	ND	
test-Buty/benzene 5 5 ND								700	ND	ND
1,2,4-Trimethylbenzene			3		ND	ND	ND	ND	ND	
Sec-Butylbenzene				1	2,120	116	299	2,510	327	
1.3-Dichlorobenzene		4	5	ND		ND	ND	ND	ND	
P-Isopropy toluene			5	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene						ND	ND	ND	ND	ND
1,2-Dichlorobenzene			_			ND	ND	ND	ND	ND
NB						•		МD	ND	ND
1,2,4-Trichlorobenzene		1	_		l .	·· ND	ND	ND	ND	ND
1.2-Dibromo-3- 5 5 ND ND ND ND ND ND			· ·				ND	ND	ND	ND
Chloropropane	1 2-Dibromo-3-					270	2772	NTN	NTO	MIX
Hexachlorobutadiene		5	5	ND	ND	מא	ND			
Naphthalene 5 5 ND ND 62.2 59.2 265 ND ND ND 1;2,3-Trichlorobenzene 5 5 ND		5	3	ND	ND	ND	ND	_		•
I,2,3-Trichlorobenzene 5 ND ND </td <td></td> <td>5</td> <td>5</td> <td>ND</td> <td>ND</td> <td>62.2</td> <td>59.2</td> <td>265</td> <td></td> <td></td>		5	5	ND	ND	62.2	59.2	265		
Acetone 25 25 ND ND ND ND ND ND ND N		5	3	ND	ND	ND	ND	ND	ND	
2-Butanone (MEK) 25 25 ND		25	25	<u>an</u>	ND	ND	ND	ND	ND	
Carbon disulfide 25 25 ND					1	. ND	ND	ND	ND	ND
4-Methyl-2-pentanone 25 25 ND ND ND 1,410 ND 276 ND 2-Hexanone 25 25 ND			1	ľ	1	ND	ND	ND	ND.	ND
2-Hexanone 25 25 ND						ND	1,410	ND	276	ND
Vinyl Acetate 25 25 ND						ND				
1,4-Dioxane 50 100 ND ND 1,090 ND 27,200 6,290 MTBE 2 2 ND ND </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td></td>						ND	ND	ND	ND	
MTBE 2 2 ND ND<						ND	1,090	ND		
ETBE 2 2 ND ND<	МТВЕ					ND				
DIPE 2 2 ND ND<		_	2	ND	ND	ND	ND	ND	ND	ND
TAME 2 2 ND ND ND ND ND ND ND						•	ND	ND	ND	ND
	IE			1		ND	ND "	ND	ND	ND
	T-Butyl Alcohol	10	10	ND	ND		1	ND	ND	ND

MDL=Method Detection:Limit, MB=Method Blank; ND=Not Detected (below DF \times MDL).

ANCHEMØØ94



Environmental Laboratories

Client:

Blakely Environmental Investigations, Inc.

Lab Job No.:

BL210034

Project:

Angeles Chemical Co.

Project Site:

8915 Sorensen Ave., Santa Fe Springs, CA

Date Sampled:

10-07-2002

Matrix:

Date Received:

10-07-2002

Batch No:

1010-VOAW

Date Analyzed:

10-10-2002

Date Reported:

10-21-2002

EPA 8260B (Tentatively Identified Compounds by Library Search) Reporting Units: ug/kg (ppb)

Sample ID	Lab ID	DF	Halogenated TICs	Non-halogenated TICs	C4-C12 Volatile Petroleum Hydrocarbons
Estemated Qua	antitation Limit	1	5	20	10
Method Blank	1	1	ND	ND	ND
MW-1	BL210034-1	100	Trichlorocyclopentene=	ND	See gasoline amount
MW-2	BL210034-2	10	1,2-dichloro-112trifluor ethane=144	ND	See gasoline amount
MW-3	BL210034-3	10	ND	ND	See gasoline amount
MW-5	BL210034-4	50	ND	ND	14,600
MW-7	BL210034-5	50	ND	ND	See gasoline amount
MW-9	BL210034-6	5	5 1,2-dichloro-112trifluor ND ethane=60		See gasoline amount

Not Detected (at the specified limit) ND:

ANCHEMØØ95



Environmental Laboratories

10-21-2002

EPA 8015M (TPH) Batch QA/QC Report

Client:

Blakely Environmental Investigations, Inc.

Lab Job No.:

BL210034

Project:

Angeles Chemical Co.

Lab Sample ID:

G210048-3

Matrix: Batch No.:

AJ09-GW1

Water

Date Analyzed:

10-09-2002

I. MS/MSD Report Unit: ppb

Analyte	Sample Conc.	Spike Conc.	MS	MŞD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
TPH-g	ND	1000	1,160	1,120	116.0	112.0	3.5	30	70-130

IL LCS Result Unit: ppb

Analyte	LCS Report Value	True Value	Rec.%	Accept. Limit
TPH-g	1,060	1,000	106.0	80-120

ND: Not Detected

HUCHEMOQGE

7801 Telegraph Road Suite L. Montebello, CA 90640



Environmental Laboratories

10-21-2002

EPA 8260B Batch QA/QC Report

Client:

Blakely Environmental Investigations, Inc.

Lab Job No.:

BL210034

Project:

Angeles Chemical Co.

Sample ID:

R210051-1

Matrix: Batch No:

1010-VOAW

Water

Date Analyzed:

10-10-2002

L MS/MSD Report Unit: ppb

Compound	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
1,1- Dichloroethene	ND	20	22.0	21.7	110.0	108.5	1.4	30	70-130
Benzene	ND	20	20.8	20.2	104.0	101.0	2.9	30	70-130
Trichloro- ethene	ND	20	21.3	21.1	106.5	105.5	0.9	30	70-130
Toluene	ND	20	19.9	20.3	99.5	101.5	2.0	30	70-130
Chlorobenzene	ND	20	22,3	22.7	111.5	113.5	1.8	30	70-130

IL LCS Result Unit: ppb

Analyte	LCS Value	True Value	Rec.%	Accept. Limit
1,1-Dichloroethene	20.6	20.0	103.0	80-120
Benzene	20.5	20.0	102.5	80-120
Trichloro-ethene	22.0	20.0	110.0	80-120
Toluene	20.9	20.0	104.5	80-120
Chlorobenzene	22.9	20.0	114.5	80-120

ND: Not Detected.

ANCHEMO097

7801 Telegraph Road Suite L. Montebello. CA 90640 Phone: (323) 888-0728 Fax: (323) 888-1509

CHAIN OF CUSTODY RECORD

Lab Job Number BL40034

Client: BEII				- ::-	- 1		.==:		1		Ana	yses	Requ	ested	l				T.A.T. Requested Rush 8 12 24 hours
Address 9605 Arro	w Rouse, Si	ute T					BE)				EX)	rm.)							□ 2-3 days 🗷 Normal
il Kebok Auemaon	Q4 980 ASS	and You	20021	Sampled by			(BTEX,MTBE)	ا <u>آ</u>			ites. B7	Confirm.)						1	Sample Condition
Project Name/No:	Profect Sile	Angeles Chemical No.,type						iasoli	iesel	(၁)	ygena	TBE	2	67					Sample seals
Client	Lab	Sumpio (Matrix	Sample	No.,type* & size of	602/8021	8015M (Gasoline)	8015M (Diesel)	8260B (VOCs)	8260B (Oxygenates, BTEX)	8260B (MTBE	Metads	Perch					Remarks
Sample ID	Sample ID	Date	Time	Туре	Preserve	1	602		801	826	826	826							
MW-I	BL240034-1	10/7/02		Water		Z - VEATE Z-Scomle		X		X			X	X					
MW-Z	-2	a		મ		N		X		X			X	X					
MW-3	-3	l(1(1(X	<u> </u>	X			X	X					
MW-5	-4			ł (-	240As		*	ļ	X		ļ							
MW-7				(1		240As 2-500HLP	<u> </u>	X		X	<u> </u>		X	X					
MW-9	-6	í1	 -	4	ļ <u>-</u>	II	<u> </u>	X	<u> </u>	X		<u> </u>	X	X					
MW-8	-8	K N		4(<u> </u>	1-500	<u> </u>	\	<u> </u>	 _	 	 	-	Χ.		ļ			
Trip Blank	-7			"	<u> </u>	2-VOAs	 -	X		*	H	-	 	ļ		<u> </u>	-		
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ANCHEMØØ98	 . 			 	<u> </u>		\vdash	 	 	-	┢┈	├──	┼		 		 		<u> </u>
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Southland Tech. Services, Inc.

7801 Telegraph Road, Suite L & K

Tel: (323

(323) 888-0728 (323) 888-1509 Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client's expense. Distribution: WHITE with report, PINK to courier.



FAX 714/538-1209

CLIENT Southland Technical Services

(6304)

LAB REQUEST 100406

ATTN: Ellis Hsuc

REPORTED

10/15/2002

7801 Telegraph Rd.- Suite L

RECEIVED

Montebello, CA 90640

10/08/2002

SUBMITTER Client

COMMENTS

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

Order No.	Client Sample Identification
384268	MW-1
384269	MW-2
384270	MW-3
384271	MW-7
384272	MW-9
384273	MW-8
384274	Laboratory Method Blank

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ard S. Behare, Ph Vice President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

The reports of the Associated Laboratories are confidential property of our clients and may not be reproduced or used for publication in part or in full without our written permission. This is for the mutual protection of the public, our clients, and ourselves. TESTING & CONSULTING

Chemical Microbiological

UNCHEWOODS

Environmental

)rder #: 384268	Client Sample ID:	MW-1				
latrix: WATER ate Sampled: 10/07/2002						
ate Dampietti Tolovia						
Analyte			Result	DLR	Units	Date/Analyst
4 Perchlorate by Ion Chomato	graphy					
Perchlorate			ND	4	ug/L	10/11/02 BGS
Order #: 384269 Intrix: WATER ate Sampled: 10/07/2002	Client Sample ID:	MW-2			***	
Analyte			Result	DLR	Units	Date/Analyst
14 Perchlorate by Ion Chomato	graphy					
Perchlorate			ND	4	ug/L	10/11/02 BGS
Order #: 384270	Client Sample ID:	MW-3				
Satrix: WATER ate Sampled: 10/07/2002	Cheft Sample 15.	141 44 - 3				
			Result	DLR	Units	Date/Analyst
Analyte						
•	graphy					
	graphy		ND	4	ug/L	10/11/02 BG S
14 Perchlorate by Ion Chomato	Client Sample ID:	MW-7	ND	4	ug/L	10/11/02 BGS
Perchlorate by Ion Chomaton Perchlorate Perchlorate Prder #: 384271 Intrix: WATER		MW-7	ND Result	DLR	ug/L Units	10/11/02 BGS Date/Analyst
Perchlorate by Ion Chomato Perchlorate Perchlorate 384271 Intrix: WATER Pate Sampled: 10/07/2002	Client Sample ID:	MW-7	.	· -		

ANCHEMØ100

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



trix: WATER e Sampled: 10/07/2002						
Analyte			Result	DLR	Units	Date/Analyst
4 Perchlorate by Ion Chomat	ography					
Perchlorate			ND	4	ug/L	10/11/02 BGS
rder #: 384273 atrix: WATER ate Sampled: 10/07/2002	Client Sample ID:	MW-8				
Analyte			Result	DLR	Units	Date/Analyst
14 Perchlorate by Ion Chomate	ography	•				
Perchlorate		1	ND	4	ug/L	10/11/02 BGS
atrix: WATER	Client Sample ID:	Laborato	ry Method Bla	nk		<u>. </u>
atrix: WATER ate Sampled: 10/07/2002	Client Sample ID:	Laborato			linite	Data/Analyst
Atrix: WATER	Client Sample ID:	Laborato	ry Method Bla	nk DLR	Units	Date/Analyst
Iatrix: WATER ate Sampled: 10/07/2002 Analyte 14 Perchlorate by Ion Chomate		Laborato	Result	DLR		
atrix: WATER ate Sampled: 10/07/2002 Analyte		Laborato			Units ug/L	Date/Analyst
Analyte 4 Perchlorate by Ion Chomate		Laborato	Result	DLR		
Iatrix: WATER ate Sampled: 10/07/2002 Analyte 14 Perchlorate by Ion Chomate		Laborato	Result	DLR		
Analyte 4 Perchlorate by Ion Chomate		Laborato	Result	DLR		
Analyte A Perchlorate by Ion Chomate		Laborato	Result	DLR		
Intrix: WATER ate Sampled: 10/07/2002 Analyte 14 Perchlorate by Ion Chomate		Laborato	Result	DLR		
Intrix: WATER ate Sampled: 10/07/2002 Analyte 14 Perchlorate by Ion Chomate		Laborato	Result	DLR		

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



ASSOCIATED LABORATORIES

QA REPORT FORM

QC Sample:

LR 100406-384269

Matrix:

WATER

Prep.Date:

10/11/02

Analysis Date:

10/11/02

Lab ID#'s in Batch:

LR 100406

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

PEPORTING LINITS =

ue/L

Test	Method	Sample Result	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
ClO4	314.0	ND	50.0	47.4	46.9	95	94	1.1

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Dup %REC-MS & MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

%Recovery Limits: 80 - 120 %

%RPD Limit: 20 %

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

		PREP BLK	LCS				<u> </u>
Test	Method	Value	Result	True	%Rec	L.Limit	H.Limit
C1O4	314.0	ND	22.9	25	92	85%	115%

VALUE - Preparation Blank Value; ND = Not-Detected

LCS = Lab Control Sample Result

TRUE - True Value of LCS

L.LIMIT / H.LIMIT = LCS Control Limits

SOUTHLAND TECHNICAL SERVICES, INC.

100406

Page	of	

	CH	AIN	OF CU	STODY	RECO	RD		1 %	, O C	~ O	Ю				Lab	Job	Num		
Technical	54	wi	ces.	Inc.							Ana	yses	Requ	ested					T.A.T. Requested □ Rush 8 12 24 hours
aph Rd.	#L	/	1 ont	epello,	CA	90640	TBE)	· [зтёх)	firm.)							☐ 2-3 days ☐ Normal
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Lab			Collect	Matrix	Sample	No.,type* & size of	2/8021 (SM (Ga	ISM (Di	N 809	60B (Ox)	60B (M	nch			!			Remarks
Sample ID	1	j	Time	Туре	Preserve	container	8	8	2 €	\Ž	\ <u>8</u>	82		<u> </u>					
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Southland Tech. Services, Inc.

7801 Telegraph Road, Suite L & K Montebello, CA 90640 Tel: (323) 888-0728 Fax: (323) 888-1509 Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client's expense. Distribution: WHITE with report, PINK to courier.